

To: Way, Steven[way.steven@epa.gov]
From: Petri, Elliott
Sent: Wed 4/8/2015 2:32:09 PM
Subject: Re: Red and Bonita Mine - tech support items

Thank You Steve,

We will get working on this, if you need anything else please let us know. I am in a HAZWOPER refresher today, and will be available via my cell phone and email for the rest of the week.

Thanks,
Elliott

Elliott Petri, PE
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Sent from a tiny phone screen, most likely with sun glare. Please excuse typos!

"Way, Steven" <way.steven@epa.gov> wrote:

Jan and Elliot,

There are a couple items that I need some assistance with:

1. Bulkhead equipment - Piezometer and Data logger: equipment review / supplier options to meet the specification requirements for this application. We have currently specified a particular type of piezometer and data logger that is Canadian made (RST Instruments). We need to know if there is an equivalent option for these items with the USA. Please look over the model and make specifications from the supplier in the attached, and do some market research for other suppliers to determine if a replacement is available. Provide a recommendation as to whether the original equipment is preferable or an acceptable alternative is available. Let me know if you require more than 4 hours to perform this; please provide this by April 17th. I believe that I sent you both the Specifications for the bulkhead that includes this.

•□□□□□□□ What we need is a ruggedized vibrating wire piezometer, Ruggedized or armored

cable, 600 psi range, and a multi-channel data logger.

2. Settling Pond Design / Retention /Capacity Increase: The current conceptual plan calls is to expand the pond to the north by placing concrete block berms (north and west side at least) and liner. However, the area in consideration immediately north is a site of “historic / cultural significance”. So, I need to evaluate whether an alternative approach might provide sufficient storage to handle the additional load from the mucking out the mine. Essentially, we need to determine if we can make it work with the existing foot print. If we need a final basin to clarify past the 3rd cell, we could make a shallow cell downstream of the current pond as alternative – maybe. Photos for your reference. For now, I just need some basic calculations / estimating the capacity alternatives, no drawings yet.

Let me know if you require more than 8 hours to complete this; please provide this by Tuesday, 4/14.

- a. How much additional storage / retention can we create in the 1st cell of the existing pond by increasing the height of the intra-pond berm. We may be able to use straw bales with geotextile, but certainly concrete block.
- b. The second cell has the same berm construction and could be elevated also.
- c. What are the implications of expanding to the south (towards the drainage from the culvert) ?

Let me know if you have questions.

Steve

Steven Way

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